

L. R. BLAKE.  
Hydraulic Hose.

No. 143,661.

Patented Oct. 14, 1873.

Fig. 3.

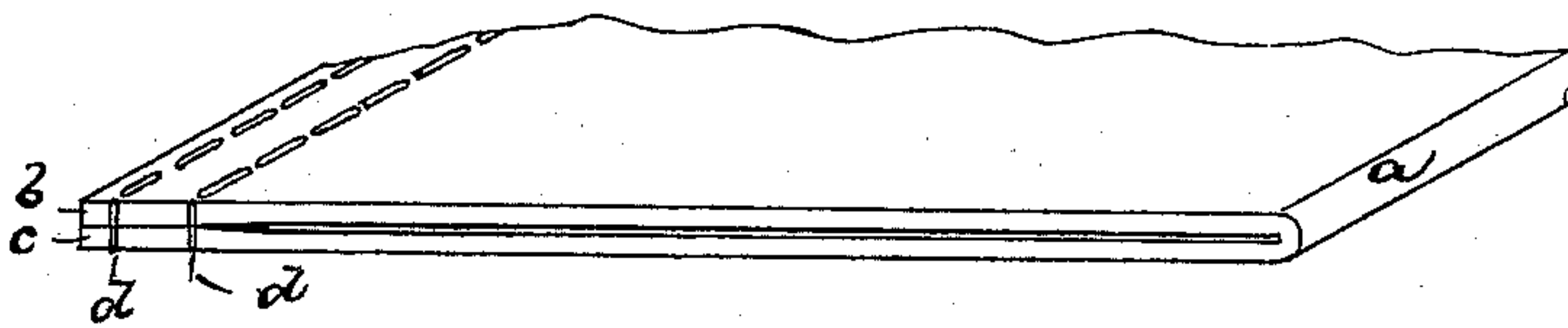


Fig. 1.

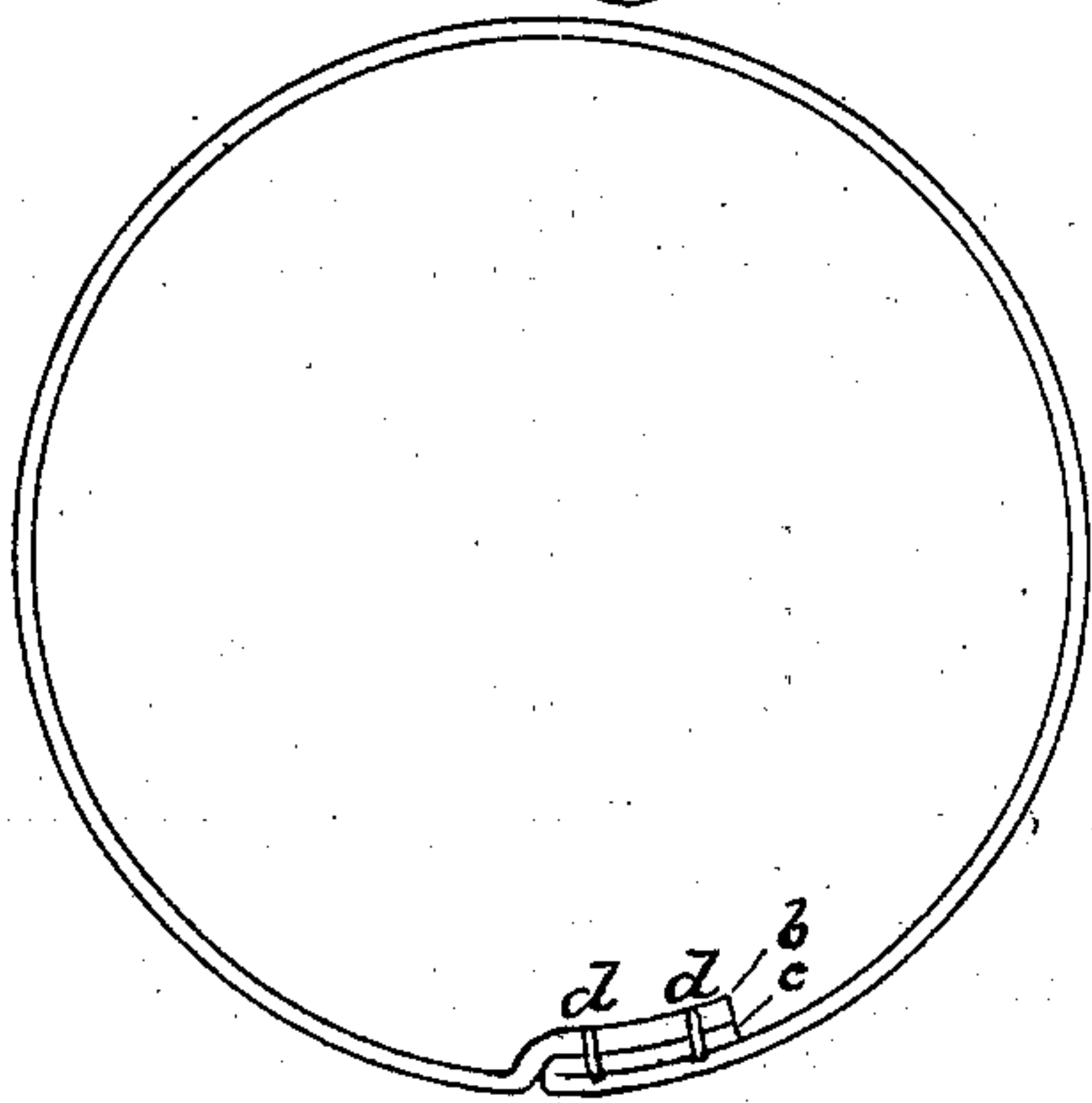
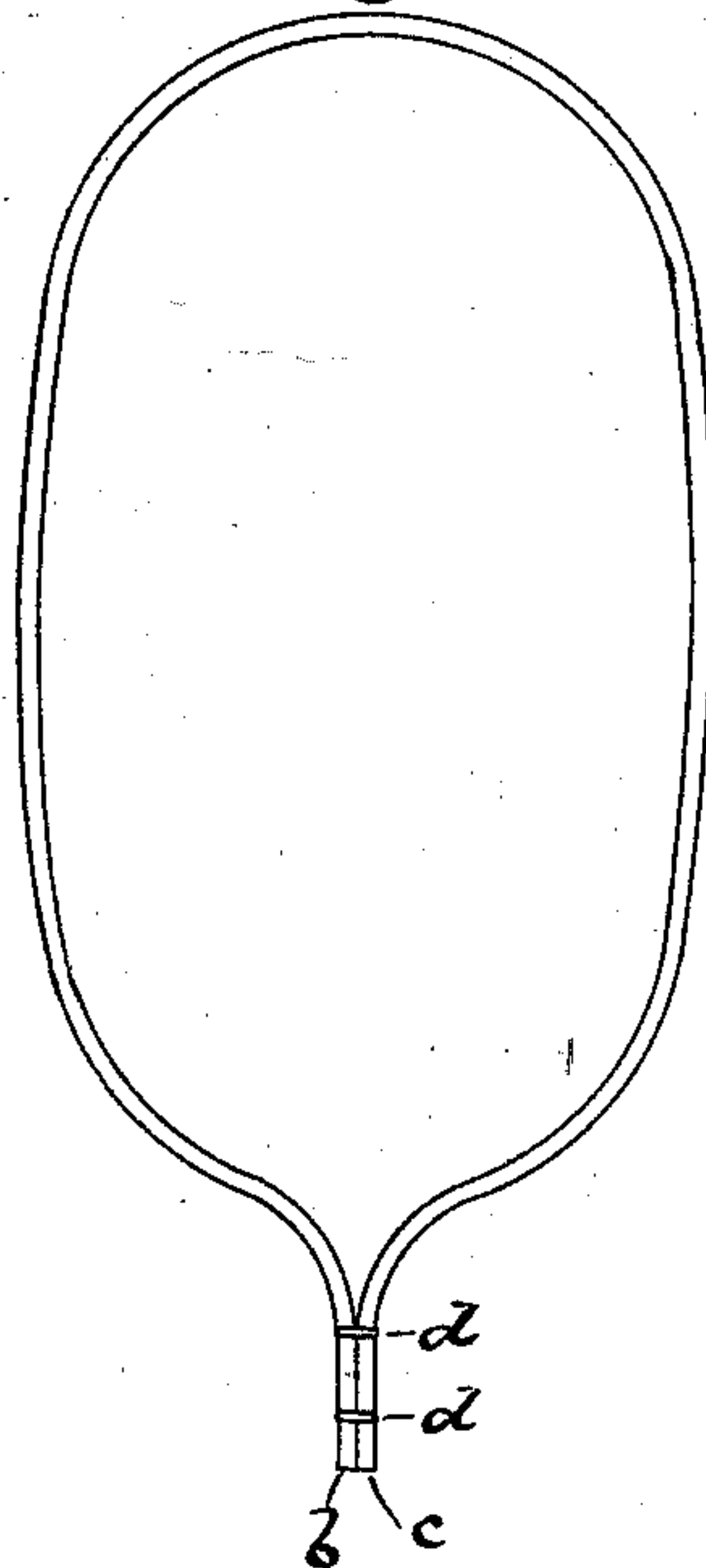


Fig. 2.



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By his attys.  
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LYMAN R. BLAKE, OF BROOKLYN, NEW YORK.

## IMPROVEMENT IN HYDRAULIC HOSE.

Specification forming part of Letters Patent No. **143,661**, dated October 14, 1873; application filed March 24, 1873.

*To all whom it may concern:*

Be it known that I, LYMAN R. BLAKE, of Brooklyn, in the county of Kings and State of New York, have invented a new and useful Improvement in the Manufacture of Hydraulic Hose; and I do hereby declare that the following, taken in connection with the drawings which accompany and form part of this specification, is a description of my invention sufficient to enable those skilled in the art to practice it.

In the manufacture of sewed hydraulic hose from woven material the edges have been lapped and united by stitches passing from inside to outside of the tube, or vice versa. My present invention relates to a method of formation of the hose, whereby a common sewing-machine is used to effect the union of the edges of the strip. For this purpose I first fold the strip at the center, with the ultimately outer face placed innermost, and the edges together presented in the same direction. I then sew through the two parts adjacent and parallel to the edges, thereby forming a flat tube; and I then turn the tube, to bring the edges into the tube. The seam may be then pressed down. My invention consists in a hose thus made.

The drawing represents, at Figure 1, a sec-

tion of a piece of hose embodying my construction. Fig. 2 shows the hose before it is turned; Fig. 3, the position of the parts as they are presented to the machine to have their edges united.

The strip, being folded at the center *a*, is laid flat upon the sewing-machine work-supporting surface, and the edges *b c* are then united by one or more rows of stitches, *d*. Then the tube made by this seam is opened, as seen at Fig. 2, and, finally, the tube is turned. Before being turned the edges may be pressed back to the surfaces adjacent to the seam, so that when turned they will not project into the tube.

When the tube is turned it will present the appearance, in section, shown at Fig. 3, the edges *b c* being inside of the tube.

I claim—

The improvement in the manufacture of hydraulic hose consisting in first uniting the edges of the strip, as described, to form the tube, and then turning the tube, as described.

LYMAN R. BLAKE.

Witnesses:

CHARLES F. GARDNER,  
ALFRED POCOCK.